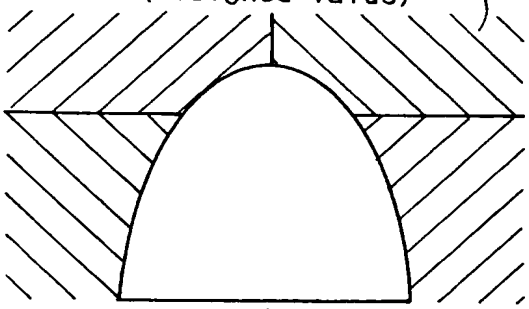
FIG. 1

(1) Optical Designing to yield 0 Wavefront Aberration

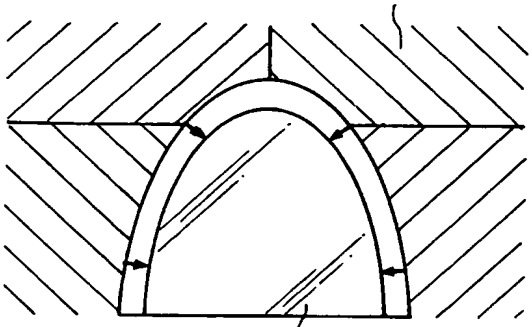
(2) Designing/Making of Temporary Die + Temporary Molding (Designed Value)

Temporary Die:1



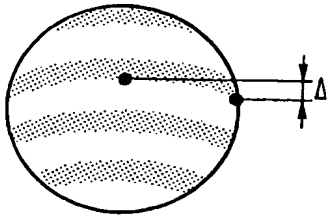
(3) Measure Wavefront of Temporarily Molded Lens with Interferometer and Calculate Deviation of Wavefront (Wavefront Aberration Amount (Δ)) from Reference Value

Temporary Die:1



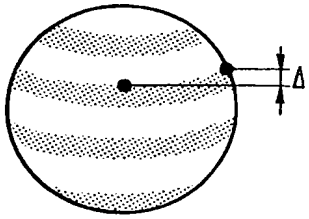
Temporary Lens:2

Interference Fringe



(4) Calculate Correction Wavefront Aberration Amount (-Δ) According to Calculated Wavefront Aberration Amount (Δ)

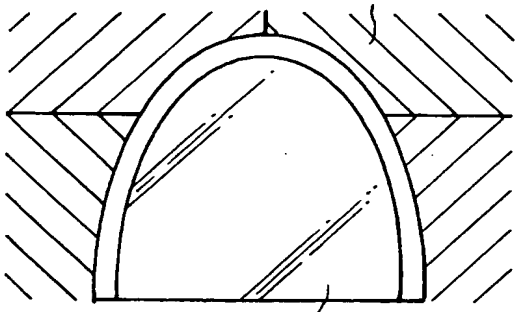
Interference Fringe



(5) Optically Design Lens to Generate Correction Wavefront Aberration Amount (-Δ)

(6) Designing/Making of Normal Die + Final Molding

Normal Die:11



Normal Lens:12

(7) Measure Wavefront of Finally Molded Lens with Interferometer

Interference Fringe

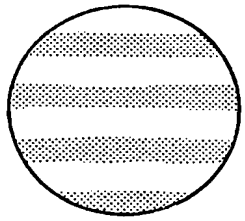


FIG. 2

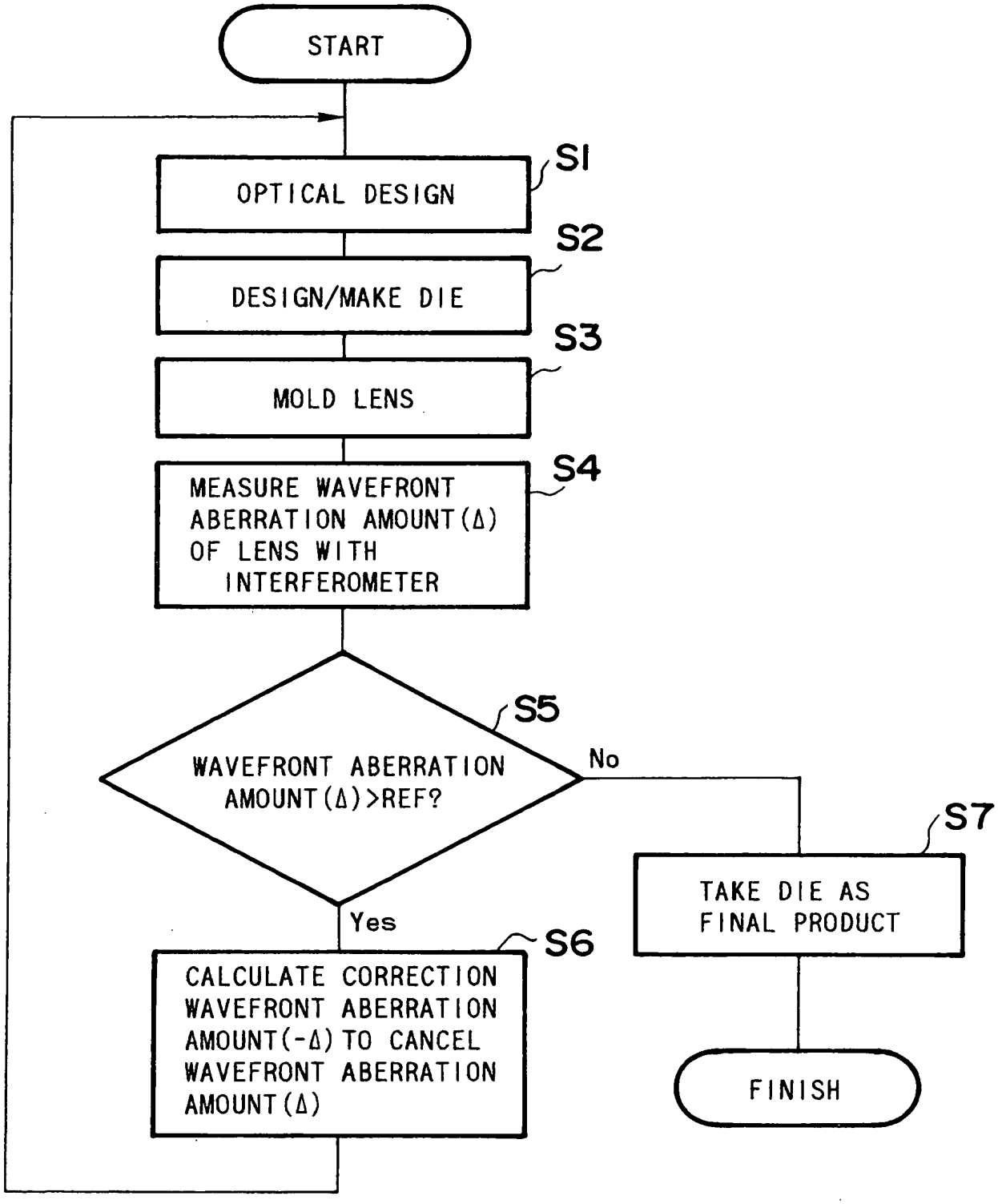

START
S1
OPTICAL DESIGN
S2
DESIGN/MAKE DIE
S3
MOLD LENS
S4
MEASURE WAVEFRONT ABERRATION AMOUNT(Δ) OF LENS WITH INTERFEROMETER
S5
WAVEFRONT ABERRATION AMOUNT(Δ)>REF?
No
Yes
S6
CALCULATE CORRECTION WAVEFRONT ABERRATION AMOUNT(-Δ) TO CANCEL WAVEFRONT ABERRATION AMOUNT(Δ)
S7
TAKE DIE AS FINAL PRODUCT
FINISH

FIG.3A

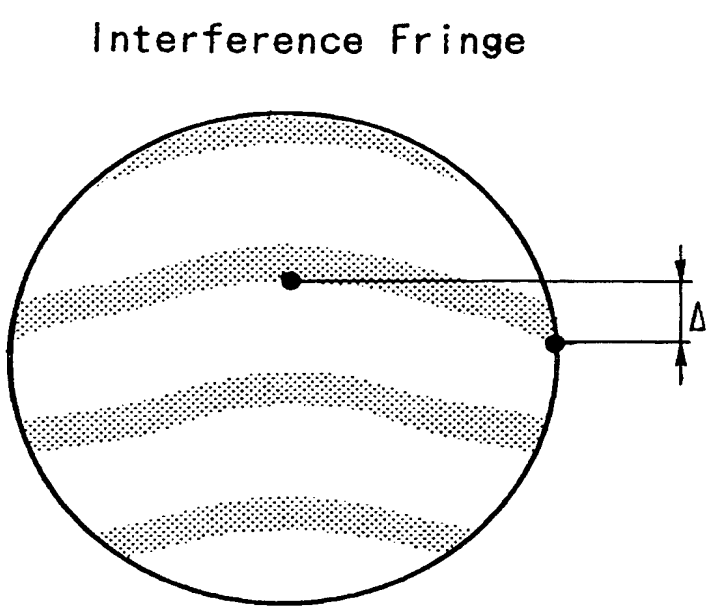

Interference Fringe
Δ

FIG.3B

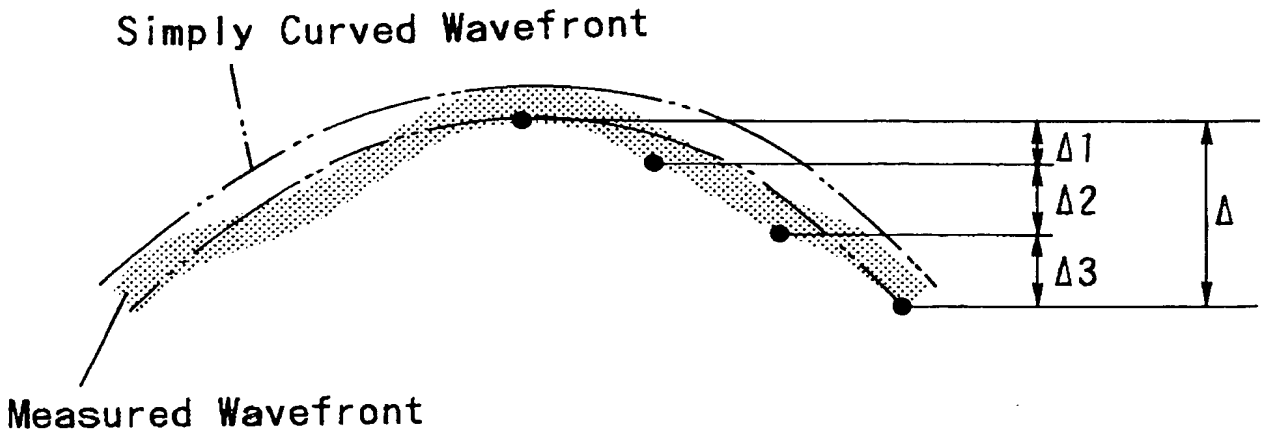

Simply Curved Wavefront
Δ1
Δ2
Δ3
Δ
Measured Wavefront

FIG.4
PRIOR ART

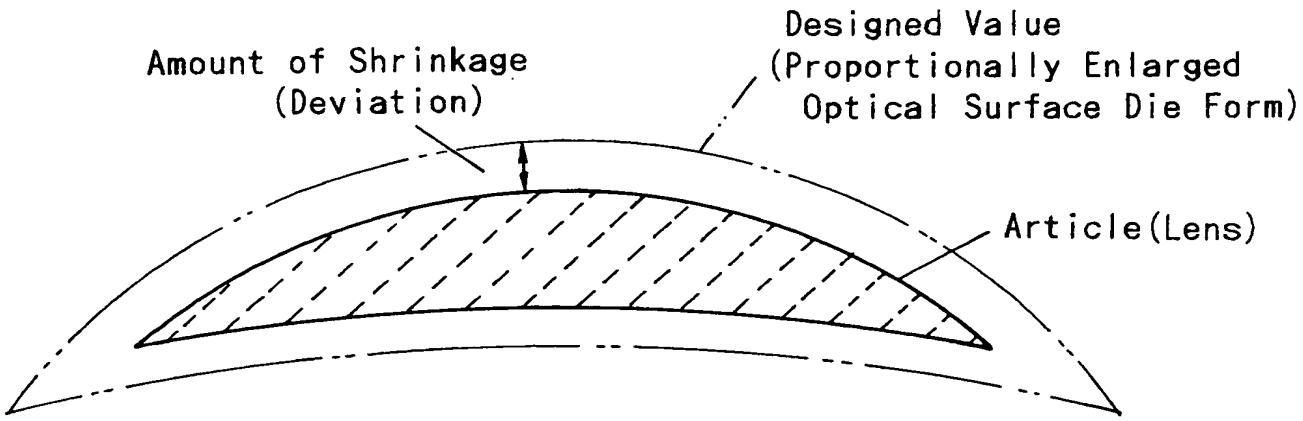


FIG.5
PRIOR ART

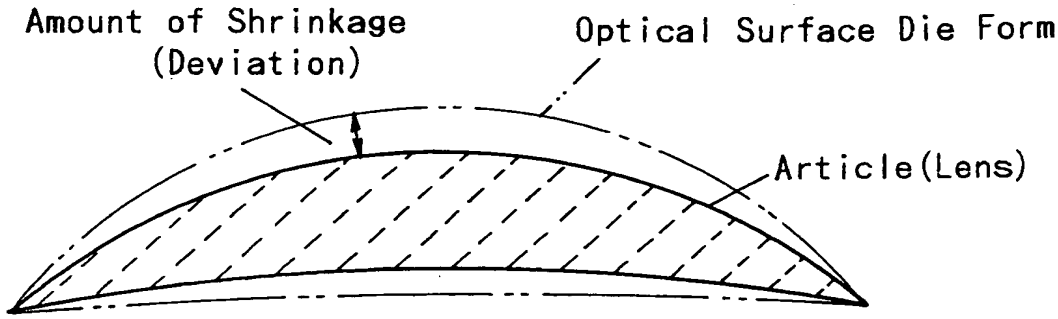
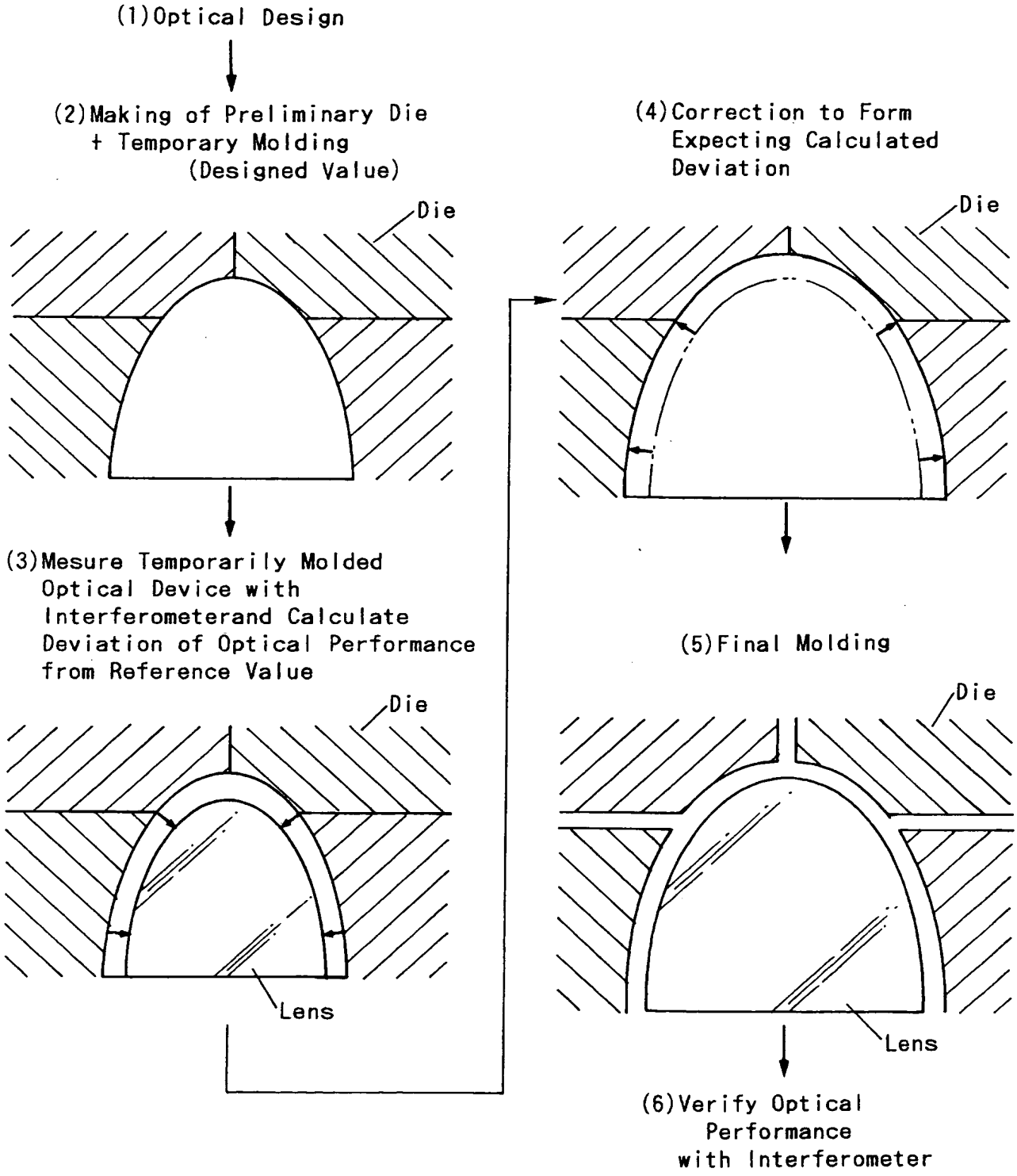



FIG.6 PRIOR ART